

Serial No.: 10/775,870
Docket No.: ST00014C3 (107-US-C3)

CLAIMS

1.(Currently Amended) A location service system, comprising:

~~a Global Position System (GPS) receiver, comprising:~~

a first data path for correlating an incoming GPS signal with a locally generated signal;

a second data path for verifying the incoming GPS signal against a lock signal, the second data path determining whether the incoming GPS signal has at least one characteristic which differentiates the incoming GPS signal from an auto-correlated signal and a cross-correlated signal;

a data path executive for monitoring the first data path and, when the incoming GPS signal does not contain the at least one characteristic, for continuing to search for a second incoming GPS signal; and

means for informing a user of the position of the location service system ~~the position of the GPS receiver.~~

2.(Original). The location services system of claim 1, wherein the at least one characteristic is a predetermined signal strength of the incoming GPS signal.

3.(Currently Amended) The location services system of claim 1, wherein the at least one characteristic is a predetermined Signal-to-Noise ~~Ratio~~ Ratio (SNR) of the incoming GPS signal.

4.(Original) The location services system of claim 1, wherein the at least one characteristic is selected from a group comprising a correlation to a different satellite

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code being stronger than the correlation to a desired satellite code, and a correlation to a different delay of the incoming CDMA signal being stronger than the correlation to the first data path's locally generated code delay.

5.(Original) The location services system of claim 1, wherein the data path executive changes a generation rate of the locally generated signal.

6.(Original) The location services system of claim 5, wherein the at least one characteristic is a predetermined signal strength of the incoming GPS signal.

7.(Original) The location services system of claim 5, wherein the at least one characteristic is a predetermined Signal-to-Noise Ratio (SNR) of the incoming GPS signal.

8.(Currently Amended) The location service system of claim 1, wherein the means for informing ~~comprises~~ is a visual display.

9.(Original) The location services system of claim 8, wherein the visual display illustrates a map.

10.(Currently Amended) The location services system of claim 9, wherein the map shows ~~a location of the GPS receiver~~ the position on the map.

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11.(Currently Amended) The location services system of claim ~~30~~ 10, wherein the map further shows a predetermined destination.

12.(Currently Amended) The location services system of claim ~~31~~ 11, wherein the map further shows at least part of a route between the location of the ~~GPS receiver~~ position and the predetermined destination.

13.(Currently Amended) A correlator engine ~~Global Positioning System (GPS) receiver~~, comprising:

a first data path for correlating an incoming GPS signal in the correlator engine with a locally generated signal;

a second data path for verifying the incoming GPS signal against a lock signal, the second data path determining whether the incoming GPS signal has at least one characteristic which differentiates the incoming GPS signal from a correlated signal, wherein the correlated signal is selected from a group comprising an auto-correlated signal and a cross-correlated signal; and

a data path executive for monitoring the first data path and for continuing to search for a second incoming GPS signal when the incoming GPS signal does not contain the at least one characteristic.

14.(Currently Amended) The ~~GPS receiver~~ correlator engine of claim 13, wherein the at least one characteristic is a predetermined signal strength of the incoming GPS signal.

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15.(Currently Amended) The ~~GPS receiver~~ correlator engine of claim 13, wherein the at least one characteristic is a predetermined Signal-to-Noise Ratio (SNR) of the incoming GPS signal.

16.(Currently Amended) The ~~GPS receiver~~ correlator engine of claim 13, wherein the at least one characteristic is selected from a group comprising a correlation to a different satellite code being stronger than the correlation to a desired satellite code, and a correlation to a different delay of the incoming CDMA signal begin stronger than the correlation to the first data path's locally generated code delay.

17.(Currently Amended) The ~~GPS receiver~~ correlator engine of claim 16, wherein the GPS receiver receives data from a source outside of the incoming GPS signal.

18.(Currently Amended). The ~~GPS receiver~~ correlator engine of claim 17, wherein the data is selected from a group comprising: time information, ephemeris information, and coarse position information.

19.(Currently Amended) The ~~GPS receiver~~ correlator engine of claim 18, wherein the ~~GPS receiver~~ correlator engine is integrated with a wireless transceiver.

20.(Currently Amended) The ~~GPS receiver~~ correlator engine of claim 19, wherein the data is selectively used by the ~~GPS receiver~~ correlator engine to determine the geoposition of the GPS receiver.